## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE       |  |  |
|---------------------------|----------|--------|------------|--|--|
| FEE DETERMINATION         | MW       |        | 08-08-01   |  |  |
| O.I.P.E. CLASSIFIER       | 1        |        | 2781 00 07 |  |  |
| FORMALITY REVIEW          | 400      | 720    | 09-11-01   |  |  |
| RESPONSE FORMALITY REVIEW | 1        | 1//    | 1111       |  |  |

## INDEX OF CLAIMS

| • | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

|              | 1           |  |              |              |          | ÷  | ••           |          |          |  |          |   | F            | Rest     | tric     | cte          | d         |           |  |  |
|--------------|-------------|--|--------------|--------------|----------|--|--------------|----------|----------|--|----------|---|--------------|----------|----------|--------------|-----------|-----------|--|--|
| Éla          | im          |  |              |              |          | Dat  | te           |          |          |  |          |   | Cla          | im       |          |              |           |           |  | Dat  |
| Final        | Original    | 2/4/03   | 2/2/62       |              |          |  |              |          |          |  |          |   | Final        | Original | 5        | 77           |           |           |  |  |
| F            | 1           | N  | 7            | _            | -        |  | ┢            |          | -        |  |          |   | _            | 51       | Ĭ        | 7            | +         | _         | $\dashv$   | $\dashv$   |
|              | 1           | П  |              |              |          |  |              |          |          |  |          |   |              | 52       | П        | T            | ┪         | $\exists$ | ヿ  | $\neg$   |
|              | \$          | I  |              |              | Г        |  |              |          |          |  |          |   |              | 53       | П        | П            | 1         |           | $\neg$   |  |
|              | 1           | П  |              |              |          |  |              |          |          |  |          |   |              | 54       |          |              |           |           |  |  |
| $\vdash$     | \$          | Ц  | L            | _            | _        | L  |              | L        |          |  | Ш        |   |              | 55       | Ц        | Ц            | $\Box$    |           |  |  |
| L            | 5           | 1  | L.           |              | <u>L</u> | _  | L            |          |          |  | $\Box$   |   |              | 56       | Ц        | Ш            | _         |           |  |  |
| <u> </u>     |             | $\!$ | L            | <u> </u>     | _        | _  |              | <u> </u> | <u> </u> |  |          |   |              | 57       | Ц        | Щ            | 4         | 4         | $\Box$   |  |
| L            | 8           | ╙  | <u> </u>     | <u> </u>     | ļ        | _  |              | ┞        | <u> </u> |  |          |   |              | 58       | L        | Щ            | 4         | _         |  |  |
| $\vdash$     | 9           | ╟  | ⊢            |              | ⊢        |  |              | $\vdash$ | ļ        | L  |          |   |              | 59       | 2        | 4            | 4         |           |  |  |
| -            | 10          | -  | ├            |              | ┝        |  | ⊢            | ┝        | ⊢        | ⊢  | _        |   | -            | 60<br>61 | L        | +            | $\dashv$  | _         |  | !  |
| -            | 12          | ╫╴   | ┝            | -            |          | ⊢  | -            |          |          | H  |          |   | <del> </del> | 62       | ┝        | +            | $\dashv$  | -         | -  |  |
| -            |             | ╟  | ┢            | ├            | ┼        | -  | ├            | -        |          |  |          |   | _            | 63       | ├        | +            | $\dashv$  |           | -  |  |
| 厂            | <b>(1</b> 3 | ╫╴   | $\vdash$     | -            | ╁        | $\vdash$   | $\vdash$     | $\vdash$ |          | -  | H        |   | ┝            | 64       | H        | +            | $\dashv$  | -         |  |  |
| $\vdash$     | 15          | ╫╴   | ╁            | $\vdash$     | $\vdash$ | <del> </del>                                     | ┼─           | ┢        | $\vdash$ |  |          |   | ┝            | 65       | ┝        | +            | $\dashv$  |           |  |  |
|              | 16          | -  |              | $\vdash$     | -        |  | $\vdash$     | H        | H        | <del>                                     </del> | -        |   | H            | 66       | ┢        | +            | 7         |           |  |  |
|              | 17          | #  | İ            |              | 一        |  | $\vdash$     | T        |          | $\vdash$   |          |   | _            | 67       | t        | +            | $\exists$ |           |  | П  |
|              | 18          | $\parallel$  | Г            | Г            | Т        |  |              |          |          |  | $\vdash$ |   |              | 68       | T        | $^{\dagger}$ |           |           |  |  |
|              | 19          |  |              | Г            | T        |  | $\vdash$     |          |          |  |          |   |              | 69       | T        | $\top$       |           |           | Н  | $\vdash$   |
| Г            | 20          | 1  |              | Г            | ⇈        | T  | Г            |          | Г        |  |          |   |              | 70       | T        | $\top$       |           |           | П  | $\vdash$   |
| Н            | 2           | ╫  | $\vdash$     |              | T        | <del>                                     </del> | $\vdash$     | ┢        | H        |  |          |   |              | 71       | t        | +            |           |           | Н  | $\vdash$   |
|              | 24          | T  | Т            | $\vdash$     |          |  | ╁            | Г        |          |  | -        |   |              | 72       | T        | +            |           |           | Н  | <u> </u>   |
|              | 23          | T  |              | Г            |          | <del>                                     </del> |              |          |          |  |          |   |              | 73       | Τ        | 1            |           |           | Н  | $\vdash$   |
|              | 1           | N  |              |              | Г        | Π  | T            |          |          |  |          |   |              | 74       | T        | 7            |           |           |  |  |
|              | 23 25       | $\mathbb{I}$   | 7            |              |          |  |              |          |          |  |          |   |              | 75       |          | T            |           |           |  |  |
|              | 26          | I  | Y            |              | L        |  |              |          |          |  |          |   |              | 76       |          | T            |           |           |  |  |
|              | 27          |  | 1            |              | L        | L  |              |          |          | L  |          | ] |              | 77       |          | I            |           |           |  |  |
| L            | 28          | 1_   | 丰            | _            | <u> </u> | <u> </u>   |              | L        | <u> </u> |  |          |   |              | 78       | L        | $\perp$      |           |           |  | L  |
| <u> </u>     | 29          | _  | 1            | 1            | Ļ        | _  | 上            | _        | _        | ┖  |          |   |              | 79       | L        | 4            |           |           | Ш  |  |
| <u></u>      | 30          | <u> </u>   | 1            | <u> </u>     | ⊢        | <u> </u>   | <u> </u>     |          |          | ļ  | _        |   |              | 80       | L        | 4            |           |           | Ш  | <u> </u>   |
| -            | 31          | <u> </u>   | 1            | <b> </b>     | ⊢        | <u> </u>   | -            | _        | _        | ⊢  | <u> </u> |   | _            | 81       | <u> </u> | +            |           |           |  | <del> </del>                                     |
| -            | 32          | ┝  | 亅            | <del> </del> | ⊢        |  | ┢            | ⊢        | -        | -  | <u> </u> |   |              | 82       | L        | +            |           |           | $\vdash$   | <u> </u>   |
| <del> </del> | 34          | ⊢  | 1            | -            | $\vdash$ | -  | ├            | $\vdash$ | $\vdash$ | $\vdash$   | -        | 1 | -            | 83<br>84 | ╁        |              | _         |           | Н  | $\vdash$   |
|              | 35          | $\vdash$   | V            | ⊢            | $\vdash$ | -  | ┢            | $\vdash$ | -        | -  | ┝        | l | $\vdash$     | 85       | ╁        | +            | -         |           | H  | $\vdash$   |
| $\vdash$     | 36          | $\vdash$   | ¥            | $\vdash$     | +        | $\vdash$   | $\vdash$     | -        | $\vdash$ | -  | $\vdash$ | ł | $\vdash$     | 86       | H        | +            | _         |           |  | $\vdash$   |
| $\vdash$     | 37          | H  | I            | ┢            | $\vdash$ | <del> </del>                                     | <del> </del> | ╁─       | ╁        | H  | -        |   | ┢            | 87       | H        | $^{+}$       |           | -         | $\vdash$   | $\vdash$   |
|              | 38          | Т  | I            | $\vdash$     | 1        | H  | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$   | _        | l | <u> </u>     | 88       | t        | +            |           |           | -  | ┢─   |
|              | (39<br>40   |  | ₹.           | ╌            | Г        |  | <b>†</b>     | t        | t        | l  |          |   |              | 89       | t        | +            |           |           |  | Ι-   |
|              | 40          |  | V            |              | $\vdash$ |  | t            | T        | $\vdash$ |  | Т        | 1 |              | 90       | T        | †            |           |           |  | _  |
|              | 41          | -  | $\downarrow$ | H            | 1        |  | <u> </u>     | $\vdash$ | $\vdash$ | t  | $\vdash$ |   | $\vdash$     | 91       | t        | †            |           |           |  | -  |
|              | 42          | T  | ₩            | $\vdash$     | 1        | Н  | T            | $\vdash$ | $\vdash$ |  | $\vdash$ | l | Н            | 92       | t        | $^{+}$       |           |           | Н  | $\vdash$   |
|              | 43          | $\vdash$   | 忲            | T            | $\vdash$ | Т  | t            | T        | T        |  | T        | 1 | Т            | 93       | +-       | $^{+}$       |           |           | $\vdash$   | $\vdash$   |
|              | 44          |  | V            |              | T        |  | T            | $\vdash$ |          | Γ  |          | 1 | ┢            | 94       | +        | $\dagger$    |           |           | _  | _  |
|              | 45          | -  | ΙŤ           | $\vdash$     | T        | $\vdash$   | Т            | Т        | Т        | Г  | Г        | 1 |              | 95       | _        | $\dagger$    |           |           | <del>                                     </del> | _  |
|              | 46          | +  | ⋪            | $\vdash$     | 1        | 1  | T            | Т        | Г        | Г  | $\vdash$ | 1 | Г            | 96       | -        | +            |           | Г         | $\vdash$   | Τ  |
|              | 47          | -  | †₹           | T            | T        | 1  |              | Г        | Γ        |  |          | 1 | Г            | 97       | -        | 十            | _         |           | П  | <del>                                     </del> |
|              | 48          | T  | ₩            | 1            | T        | Г  | Τ            | $\vdash$ |          |  | Г        | 1 | Г            | 98       | -        | $\dagger$    | _         |           | Г  | _  |
|              | 49          |  | 1            | 1            | Γ        | İ  |              |          | Г        |  |          | 1 |              | 99       | T        | T            |           |           |  |  |
|              | 50          | ٢  | ΙŢ           | 1            | 1        | Π  | 1            |          | Г        | П  | Г        | 1 | Г            | 100      | t        | ✝            |           |           | Г  | Г  |

| Cla           | im    |                    |              |          |          | Date         |          |              |              |          |               |  |  |
|---------------|-------|--------------------|--------------|----------|----------|--------------|----------|--------------|--------------|----------|---------------|--|--|
|               | Ħ     | 4                  |              | $\neg$   |          |              |          |              |              |          | П             |  |  |
| Final         | rigin | K (71/2 4)         |              |          |          |              | İ        |              |              |          |               |  |  |
| F             | 0     | 3                  |              |          | _        | -            | -        | _            | _            |          |               |  |  |
|               | 51    | ¥                  |              | $\dashv$ | _        |              |          |              | _            |          |               |  |  |
|               | 52    | Ш                  |              |          |          | _            | _        |              | _            | _        |               |  |  |
|               | 53    |                    |              |          | _        |              |          |              |              |          |               |  |  |
|               | 54    | Щ                  |              |          |          |              |          | _            |              |          | $\Box$        |  |  |
|               | 55    |                    | $\Box$       | $\Box$   | _        |              |          | _            |              |          |               |  |  |
|               | 56    | Ш                  |              |          |          |              |          |              |              |          |               |  |  |
|               | 57    | Ш                  |              |          | _        | _            |          |              |              |          |               |  |  |
| _             | 58    | Ш                  | Ш            |          |          |              |          |              |              |          |               |  |  |
|               | 59    | 77                 |              |          |          |              |          |              |              |          | -             |  |  |
|               | 60    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 61    |                    |              |          |          |              |          |              |              |          |               |  |  |
| _             | 62    | $oxedsymbol{oxed}$ |              |          |          |              |          |              |              |          |               |  |  |
| L             | 63    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 64    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 65    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 66    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 67    |                    |              |          |          |              |          |              |              |          |               |  |  |
| L             | 68    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 69    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 70    |                    |              |          |          |              |          |              |              | Г        |               |  |  |
|               | 71    |                    |              |          |          |              |          |              |              | П        |               |  |  |
|               | 72    |                    |              |          |          |              |          |              |              | Г        |               |  |  |
|               | 73    |                    |              |          |          |              |          |              |              |          | Г             |  |  |
|               | 74    |                    |              |          |          |              |          |              |              |          | Г             |  |  |
|               | 75    |                    |              |          |          |              |          |              |              |          | Г             |  |  |
|               | 76    |                    |              |          |          |              |          |              |              |          | Г             |  |  |
|               | 77    |                    |              |          |          |              |          |              |              |          | Г             |  |  |
|               | 78    | Π                  |              |          |          |              |          |              |              |          |               |  |  |
|               | 79    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 80    |                    |              |          |          |              |          |              |              |          |               |  |  |
|               | 81    |                    |              |          |          |              |          | _            |              |          |               |  |  |
|               | 82    |                    |              |          |          |              |          |              |              |          | Г             |  |  |
|               | 83    |                    |              |          |          |              |          |              | _            | _        |               |  |  |
| Г             | 84    | Γ                  |              |          |          | Г            |          |              | Г            |          |               |  |  |
| Г             | 85    |                    |              |          | $\Box$   | $\vdash$     |          |              |              |          | <u> </u>      |  |  |
| Г             | 86    |                    |              |          |          |              |          | Г            | l            |          | Т             |  |  |
|               | 87    |                    |              | П        | Г        | Г            |          | Г            | $\vdash$     | Ι        |               |  |  |
|               | 88    | Г                  |              |          |          | $\vdash$     |          |              | $\vdash$     |          |               |  |  |
| Г             | 89    |                    |              | П        | Г        | Т            | Г        | Г            | $\vdash$     | T        | $\vdash$      |  |  |
|               | 90    | Ι                  |              | Г        |          |              |          |              |              | Г        | 1             |  |  |
| $\vdash$      | 91    | $\vdash$           | <u> </u>     |          | $\vdash$ | -            |          | $\vdash$     | ┢            |          | H             |  |  |
| $\vdash$      | 92    | -                  | $\vdash$     | $\vdash$ | $\vdash$ | -            | $\vdash$ | Η-           | <del> </del> | $\vdash$ | $\vdash$      |  |  |
| $\vdash$      | 93    | <del> </del>       | <u> </u>     | H        | <u> </u> | $\vdash$     | -        | Η-           | -            | $\vdash$ | ⊢             |  |  |
| $\vdash$      | 94    | ┢                  | $\vdash$     | Н        | -        | -            |          | $\vdash$     | $\vdash$     | $\vdash$ | <del> -</del> |  |  |
| $\vdash$      | 95    |                    | $\vdash$     | $\vdash$ |          | -            | -        | -            | -            | $\vdash$ | ⊢             |  |  |
| $\vdash$      | 96    | ┢                  | -            | $\vdash$ | _        | -            | $\vdash$ |              | <u> </u>     | $\vdash$ | ⊢             |  |  |
| ⊢             | 97    | $\vdash$           |              | ├        | $\vdash$ | <del> </del> | -        | -            | $\vdash$     | -        | $\vdash$      |  |  |
| $\vdash$      | 98    | $\vdash$           | ├            | $\vdash$ | <u> </u> | <u> </u>     | $\vdash$ | <u> </u>     | _            | -        | ⊢             |  |  |
| <del> -</del> | 98    | $\vdash$           | -            | $\vdash$ | $\vdash$ | <u> </u>     | $\vdash$ | <u> </u>     | -            |          | ⊢             |  |  |
| $\vdash$      | 100   |                    | <del> </del> | -        | $\vdash$ |              | -        | <del> </del> | -            | -        | -             |  |  |
|               | 11116 |                    |              |          |          |              |          |              |              |          |               |  |  |

| Cla   | im         |           |          |              |          | Dat           | е        |          |          |          |          |
|-------|------------|-----------|----------|--------------|----------|---------------|----------|----------|----------|----------|----------|
| Final | Original   |           |          |              |          |               |          |          |          |          |          |
|       | 101        |           |          |              |          |               |          |          |          |          | _        |
|       | 102        |           | _        | 4            |          | _             |          |          | _        |          |          |
|       | 103<br>104 |           |          | _            |          | _             | _        | _        | _        |          |          |
|       | 105        | $\dashv$  |          | $\dashv$     | $\dashv$ | _             |          |          | $\dashv$ | $\dashv$ |          |
|       | 106        | $\exists$ |          | $\dashv$     | $\dashv$ | -             |          | $\dashv$ | $\neg$   | $\dashv$ | _        |
|       | 107        |           |          |              |          | _             |          | $\dashv$ | $\dashv$ | $\dashv$ |          |
|       | 108        |           |          |              |          |               |          |          |          |          |          |
|       | 109        |           |          |              |          |               |          |          |          |          |          |
|       | 110        |           |          |              |          |               |          |          |          |          |          |
|       | 111        | Ш         |          | _            |          |               |          |          |          | Ц        |          |
|       | 112<br>113 |           |          |              | _        |               |          |          |          | Н        |          |
| -     | 114        | Н         | Н        |              |          |               | Н        | -        |          | Н        | -        |
|       | 115        | H         |          | •            |          |               | -        | -        |          | Н        |          |
|       | 116        | H         | -        |              |          |               |          | _        |          | H        |          |
|       | 117        |           |          |              |          |               |          |          |          |          |          |
|       | 118        |           |          |              |          |               |          |          |          |          |          |
|       | 119        | _         |          |              |          |               |          |          |          |          |          |
|       | 120        | _         |          |              |          |               |          |          |          |          |          |
|       | 121        |           |          |              |          |               |          |          |          |          |          |
|       | 122        |           |          |              |          |               |          | L        |          |          | _        |
|       | 123        |           |          |              |          |               | <u> </u> |          |          |          | _        |
|       | 124        | _         |          | _            |          | _             | H        | L        | $\vdash$ | -        | _        |
|       | 125<br>126 |           | -        |              |          | _             | H        |          | -        | H        |          |
|       | 127        |           | $\vdash$ | _            | -        | -             | $\vdash$ | -        | _        | -        | -        |
|       | 128        |           |          | _            |          | $\vdash$      | $\vdash$ |          | -        |          |          |
|       | 129        |           |          |              |          |               |          |          |          |          |          |
|       | 130        |           |          |              |          |               |          |          |          |          |          |
|       | 131        |           |          |              |          |               |          |          |          |          |          |
|       | 132        |           |          |              | L        | L.            | _        | _        | _        | <u> </u> |          |
|       | 133        |           |          | <u> </u>     | <u> </u> | <del> -</del> |          | <u> </u> | _        | L        | _        |
| _     | 134<br>135 |           | H        |              | _        | Ė             | -        | -        | $\vdash$ | -        | -        |
|       | 136        |           | $\vdash$ | _            | ⊢        | $\vdash$      | -        | ├        | ├-       | $\vdash$ | ┝        |
|       | 137        |           | ┢        |              | -        | -             | ┢        | -        | -        | $\vdash$ | -        |
|       | 138        |           | _        | _            | -        | $\vdash$      | $\vdash$ | -        | -        | H        | ┢        |
|       | 139        |           |          |              |          |               |          |          |          |          |          |
|       | 140        |           |          |              |          |               |          |          |          |          | Г        |
|       | 141        | -         |          |              |          |               |          |          |          | Г        | Г        |
|       | 142        |           |          |              |          |               |          |          |          |          |          |
|       | 143        |           |          |              |          |               |          | ·        |          |          |          |
| _     | 144        |           |          |              |          |               |          |          | L        | L        | L        |
|       | 145        |           | _        | $oxed{oxed}$ | _        | lacksquare    | <u> </u> | _        | $\vdash$ | <u> </u> | L        |
|       | 146        |           | _        | <u> </u>     | -        | -             | <u> </u> | $\vdash$ | -        |          | L        |
| _     | 147        |           | -        | $\vdash$     | -        | ├             | <u> </u> | H        | -        |          | $\vdash$ |
|       | 148        | -         | $\vdash$ | $\vdash$     | ├        | ⊢             | -        | ┝        | _        | ⊢        | ├        |
|       | 150        | $\vdash$  | $\vdash$ | $\vdash$     | ┝        | -             | -        | $\vdash$ | -        | _        | H        |
|       |            |           |          |              |          |               |          |          |          |          |          |

If more than 150 claims or 10 actions staple additional sheet here